

STRONTIA SPRINGS DAM  
HYDROELECTRIC POWER PLANT  
10 YEAR MAINTENANCE  
-- CONTRACT 08126A

City & County of Denver  
Bid Opening: September 7, 2006 @ 10:00 a.m.

		ENGINEER'S ESTIMATE		USA CONSTRUCTION, INC.		GRACON CORPORATION		
Item	Work & Material	Quantity	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
A. <u>GENERAL CONSTRUCTION:</u>								
1.	Turbine disassembly and reassembly	Lump Sum		\$14,000.00		\$12,000.00		\$24,000.00
2.	Generator disassembly and reassembly	Lump Sum		\$12,000.00		\$10,000.00		\$42,000.00
TOTAL FOR A				\$26,000.00		\$22,000.00		\$66,000.00
B. <u>COMPONENTS TO BE PROVIDED:</u>								
1.	One complete set of 24 wicket gate head cover bushings	Lump Sum		\$500.00		\$110.00		\$200.00
2.	One complete set of 24 wicket gate stay-ring bushings	Lump Sum		\$500.00		\$120.00		\$200.00
3.	One complete set of 48 upper and lower wicket gate sleeves and 96 O-rings	Lump Sum		\$6,000.00		\$8,100.00		\$15,400.00
4.	Stainless steel shaft protective sleeve	Lump Sum		\$2,000.00		\$1,200.00		\$2,100.00
5.	Head cover wear ring	Lump Sum		\$4,000.00		\$6,100.00		\$10,700.00
6.	Discharge ring wear ring	Lump Sum		\$4,000.00		\$2,800.00		\$10,700.00
7.	Twenty-four wicket gate friction locking clamps	Lump Sum		\$2,000.00		\$700.00		\$1,200.00
8.	Twenty-four wicket gate locking assembly cover plates	Lump Sum		\$800.00		\$1,900.00		\$3,200.00
TOTAL FOR B				\$19,800.00		\$21,030.00		\$43,700.00

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C. <u>INDIVIDUAL COMPONENT LABOR:</u>								
1.	Alignment pre-check	Lump Sum		\$500.00		\$300.00		\$3,900.00
2.	Turbine runner measurements	Lump Sum		\$500.00		\$300.00		\$900.00
3.	Wicket gate measurements	Lump Sum		\$1,000.00		\$500.00		\$900.00
4.	Packing box measurements	Lump Sum		\$300.00		\$100.00		\$300.00
5.	Draft tube:							
	Required Work	Lump Sum		\$1,000.00		\$400.00		\$700.00
	Potential Work	Lump Sum		\$2,000.00		\$650.00		\$6,500.00
6.	Wicket gates:							
	Required Work	Lump Sum		\$3,000.00		\$1,200.00		\$16,300.00
7.	Wicket gate linkage bushings:							
	Required Work	Lump Sum		\$4,000.00		\$2,400.00		\$11,100.00
8.	Wicket gate seal plates:							
	Required Work	Lump Sum		\$400.00		\$130.00		\$4,800.00
9.	Runner:							
	Required Work	Lump Sum		\$500.00		\$400.00		\$2,200.00
	Potential Work	Lump Sum		\$2,500.00		\$2,900.00		\$3,000.00

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		Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
10. Scroll Case:							
Required Work	Lump Sum		\$1,000.00		\$750.00		\$1,800.00
Potential Work	Lump Sum		\$3,000.00		\$2,400.00		\$6,000.00
11. Shaft protecting sleeve:							
Required Work	Lump Sum		\$500.00		\$200.00		\$2,400.00
12. Stuffing box:							
Required Work	Lump Sum		\$400.00		\$260.00		\$2,400.00
13. Inlet butterfly guard valve:							
Required Work	Lump Sum		\$300.00		\$100.00		\$1,900.00
Potential Work	Lump Sum		\$400.00		\$130.00		\$3,600.00
14. Generator and exciter scope of work:							
Required Work	Lump Sum		\$22,000.00		\$19,000.00		\$34,000.00
15. Generator bearings scope of work	Lump Sum		\$3,000.00		\$250.00		\$16,600.00
	<b>TOTAL FOR C</b>		<b>\$46,300.00</b>		<b>\$32,370.00</b>		<b>\$119,300.00</b>
<b>TOTAL FOR A. GENERAL CONSTRUCTION:</b>			<b>\$26,000.00</b>		<b>\$22,000.00</b>		<b>\$66,000.00</b>
<b>TOTAL FOR B. COMPONENTS TO BE PROVIDED:</b>			<b>\$19,800.00</b>		<b>\$21,030.00</b>		<b>\$43,700.00</b>
<b>TOTAL FOR C. INDIVIDUAL COMPONENT LABOR:</b>			<b>\$46,300.00</b>		<b>\$32,370.00</b>		<b>\$119,300.00</b>
<b>Mobilization (not to exceed 5% of Total Bid)</b>			<b>\$4,000.00</b>		<b>\$4,000.00</b>		<b>\$11,100.00</b>
	<b>TOTAL BID</b>		<b>\$96,100.00</b>		<b>\$79,400.00</b>		<b>\$240,100.00</b>

Employers Mutual  
Casualty Company

Safeco Insurance  
Company of America